

Title (en)
IMPROVED SYRINGE

Title (de)
VERBESSERTE SPRITZE

Title (fr)
SERINGUE AMELIOREE

Publication
EP 1879634 A2 20080123 (EN)

Application
EP 06739845 A 20060328

Priority

- US 2006011312 W 20060328
- US 67911305 P 20050509
- US 38762506 A 20060323

Abstract (en)
[origin: WO2006121513A2] A retractable needle safety syringe is provided having mitigated retraction. The syringe comprises a syringe body, a syringe cavity, a plunger, a variable vacuum compartment, a shaft brake, and a ram member. The plunger assembly includes a plunger shaft and a piston slidably engaged within the syringe body. The variable vacuum compartment is disposed within the syringe cavity and provides a vacuum force on the plunger shaft directed from a bottom syringe body end toward a top syringe body end. The shaft brake, being attached to the top syringe body end, may frictionally engage the plunger shaft to provide first and second frictional forces in opposition to the vacuum force, the first frictional force being exerted prior to the piston reaching the bottom syringe body end, the second frictional force being exerted in response to the engagement of the ram member with the shaft brake.

IPC 8 full level
A61M 5/32 (2006.01)

CPC (source: EP US)
A61M 5/3234 (2013.01 - EP US); **A61M 2005/3151** (2013.01 - EP US); **A61M 2005/3242** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
WO 2006121513 A2 20061116; WO 2006121513 A3 20071122; EP 1879634 A2 20080123; EP 1879634 A4 20090603;
EP 1879634 B1 20120516; US 2006264840 A1 20061123; US 2007000556 A1 20070104; US 7572247 B2 20090811

DOCDB simple family (application)
US 2006011312 W 20060328; EP 06739845 A 20060328; US 38762506 A 20060323; US 42930106 A 20060505